

### Abstract of the Disclosure

5 A method that uses software-pipelining to translate programs, from higher level languages into equivalent object or machine language code for execution on a computer, including sparse arrays/matrices. In one example embodiment, this is accomplished by transforming sparse array matrix source code and software-pipelining the transformed source code to reduce recurrence initiation interval, decrease run time, and enhance performance.

"Express Mail" mailing label number: EV332568480US

Date of Deposit: June 30, 2003

This paper or fee is being deposited on the date indicated above with the United States Postal Service pursuant to 37 CFR 1.10, and is addressed to the Commissioner for Patents, Mail Stop Patent Application, P.O. Box 1450, Alexandria, VA 22313-1450.